

Grand Canyon

National Park Service
U.S. Department of the Interior
Grand Canyon National Park
Arizona



The Guide

South Rim: September 8–November 30, 2009
Also available in Deutsch, Español, Français, Italiano,
日本語, 中文, 한국어

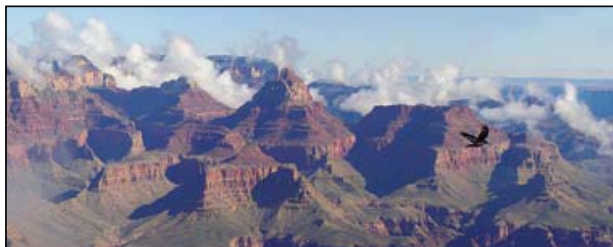


Colorado River from Pima Point, NPS photo by Michael Quinn

Welcome to Grand Canyon National Park

The Grand Canyon we visit today is a gift from past generations. Take time to enjoy this gift. Sit and watch the changing play of light and shadows. Wander along a trail and feel the sunshine and wind on your face. Follow the antics of the ravens soaring above the rim. Can you hear the river roaring in the gorge far below? We must ensure that future generations have the opportunity to form connections with this inspiring landscape.

A few suggestions may make your visit more rewarding. The information in this publication will answer many of your questions about the South Rim. Stop by a visitor center and talk with a ranger. Participate in a ranger-led activity. Save gas and frustration; park your vehicle and ride the free shuttles. Watch a sunrise or sunset. Walk out at night to enjoy the star-filled sky or the moon-lit canyon. Hike into the canyon and progress backward in geologic time. May you form memories that last a lifetime.



Ride the Free Shuttle Buses

To make your stay at Grand Canyon National Park less hectic and to reduce traffic congestion, use the free shuttle buses. The shuttles operate from before sunrise to after sunset, come by frequently, and the drivers never get lost. Read the article on page 5 and the map on pages 8–9 for more details.

Construction Ahead! Drive Cautiously.

Road construction in the Mather Point–Canyon View Information Plaza area continues into the fall. When the project is completed, the entrance road will skirt the south side of Canyon View Information Plaza and additional parking will provide easy access to the visitor center and rim. See additional information on this project on page 10.

Drive slowly and obey all construction zone signs and flaggers.

90 Years Old and Aging Beautifully

This year Grand Canyon National Park celebrates its 90th anniversary. President Wilson signed the legislation designating Grand Canyon National Park on February 26, 1919. Efforts to preserve the canyon began earlier.

Benjamin Harrison, then a senator from Indiana, unsuccessfully introduced legislation setting aside Grand Canyon as a national park in 1882. After becoming president, Harrison proclaimed the Grand Canyon Forest Preserve in 1893, placing a section of this magnificent landscape under federal protection.

President Theodore Roosevelt stopped at the South Rim on a cross-country train trip in 1903. He exhorted the assembled residents and visitors to “keep this great wonder of nature as it now is... You cannot improve on it; not a bit. The ages have been at work on it, and man can only mar it. What you can do is to keep it for your children, your children’s children, and for all who come after you, as one of the great sights which every American, if he can travel at all, should see.”

True to his word, Roosevelt set aside a portion of the canyon area as the Grand Canyon Game Reserve in 1906. Using the authority of the 1906 Antiquities Act, Roosevelt proclaimed Grand Canyon National Monument in 1908. The Grand Canyon Enlargement Act of 1975 established the current boundaries.

Although the boundaries have changed during the past decades, the National Park Service strives to “keep this great wonder of nature as it now is.” We hope that people from all around the world can enjoy Grand Canyon for decades to come.

Look inside for information on:

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What Time Is It?

Most of Arizona, including Grand Canyon National Park, remains on Mountain Standard Time year-round. Until October 31, Arizona is on the same time as California and Nevada. Beginning November 1 Arizona is on the same time as Colorado, New Mexico, and Utah.

Emergency: 911

24 hours-a-day dial
911 from any phone
9-911 from hotel phones
















Thinking of Hiking?
See pages 12–13

The National Park Service cares for special places saved by the American people so that all may experience our heritage.

Ranger Programs

During your visit the National Park Service encourages you to participate in the programs listed below. All programs are free.

Grand Canyon Village

Activity	Location	Time	Duration	Frequency
Cedar Ridge Hike 				
This program offered September only.				
With a ranger, descend 1,140 feet (350 m) below the rim on the unpaved South Kaibab Trail to Cedar Ridge. This strenuous 3-mile (5-km) round-trip hike is not recommended for people with heart or respiratory problems or difficulty walking. Participants should wear sturdy footwear and bring 1–2 quarts (1–2 liters) of water per person. Hat, sunscreen, and snacks strongly recommended. Hikers cannot drive to the trailhead. Ride the free Village Route shuttle bus to Canyon View Information Plaza and hop on the Kaibab Trail Route shuttle bus by 7:10 a.m. Allow 45 minutes for total travel time. Last hike given September 30.	South Kaibab Trailhead	7:30 a.m.	3–4 hours	Daily
Canyon Discovery 				
This program offered October and November only.				
Join park rangers for an in-depth hike and discussion of some aspect of the canyon's ecosystems or history. Meet rangers in the lobby at Park Headquarters. Participants should bring water and snacks for a two to three hour program that will take visitors to seldom-visited areas along the South Rim. Participants will need to have their own vehicle or be willing to car pool with others. Everyone will caravan with the ranger to different locations along the rim. Program topics and locations vary daily. Be prepared for moderate hikes of up to three miles. Program begins October 1.	Lobby of Park Headquarters	9:00 a.m.	3 hours	Daily
Fossil Walk: Remnant Impressions  				
This program offered September only.				
Walk among brachiopods, sponges, and other marine creatures that thrived on this part of the continent 270 million years ago, before the age of the dinosaurs. This easy ½-mile (0.8 km) one-way walk explores an exposed fossil bed along the rim. Parking may be limited; park in Lots C, D, or E or ride the free Village Route shuttle to the Bright Angel Lodge stop. Last program given September 30.	Patio on rim side of Bright Angel Lodge	9:30 a.m.	1 hour	Daily
Colorado River Talk  				
Enjoy the grandeur and power of the Colorado River as you explore and discuss the river's role in Grand Canyon. Program may include a short walk on a paved path. Parking may be limited; plan to arrive by the Village Route shuttle bus to the Yavapai Observation Station stop.	Bicycle rack outside Yavapai Observation Station	10:00 a.m.	30–45 minutes	Daily
Introduction to Grand Canyon's Geology  				
Why is the Grand Canyon so deep, wide, and grand? Why does it exist only here in the world? Come and participate in this fascinating talk to learn how Grand Canyon was formed. Plan sufficient time to arrive at the visitor center by the free Village Route shuttle bus.	Grand Canyon Visitor Center at Canyon View Information Plaza	10:30 a.m.	30–45 minutes	Daily
The Human Story   				
For thousands of years, humans have been part of Grand Canyon. Join park staff outside of Verkamp's Visitor Center to take a look at the history of the South Rim area. Programs may include a walk around the village historic district or a talk inside if the weather is poor. Parking may be limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Train Depot stop.	Verkamp's Visitor Center front porch	10:30 a.m.	30–45 minutes	Daily
Kolb Studio: Images of the Past (by reservation only)				
Kolb Studio, built in 1904, spills five levels down the canyon wall. The Kolb brothers played an integral role in the early years of development at Grand Canyon. From the studio they photographed countless visitors as they began their mule trips. Join a ranger for a closer look at Kolb Studio and the fascinating time in which the Kolb family lived. Limited to 12 participants. Register at Kolb Studio for the tour prior to that days program or by calling (928) 638-2771.	Kolb Studio	1:30 p.m.	30–45 minutes	Daily
Geo Glimpse  				
Enjoy the geology exhibits at Yavapai Observation Station and explore a selected aspect of the canyon's geology during these short talks.	Inside Yavapai Observation Station	2:00 p.m. and 3:00 p.m.	20 min.	Daily

We hope that learning more about Grand Canyon National Park and its resources will lead to a greater appreciation of your national park.

Grand Canyon Village (continued)

Rim Walk

Grand Canyon is a colorful landscape with a rich history. Enjoy an intriguing walk with a park ranger exploring the canyon's natural and cultural history. This is an easy, up to one-mile (1.6-km) walk on a paved trail. Parking may be limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Train Depot stop.

Verkamp's Visitor Center
front porch

2:30 p.m.

45–60
minutes

Daily

Condor Talk: Wings over the Canyon

This program offered September only.

What highly endangered bird with a 9-foot (2.7-m) wingspan is often spotted at Grand Canyon? The California condor! Learn about these majestic birds and their reintroduction in northern Arizona in a talk on the canyon's rim. Parking is limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Bright Angel stop. **Last talk given September 30.**

In front of **Lookout Studio**
near Bright Angel Lodge
(You may have to use stairs to
arrive at the program site.)

3:30 p.m.

30 – 45
minutes

Daily

Nature Walk

Learn more about the complexity and diversity of nature with a short hike along the rim. Topics vary and may include animals and plants adapting to the changing seasons, human impact on nature, how nature inspires writers and poets, rare and endangered species, or Native Americans' use of plants and animals. Ride the free Village Route shuttle bus to the Yavapai Observation stop.

Bicycle rack outside **Yavapai
Observation Station**

4:00 p.m.

45–60
minutes

Daily

Evening Program

The perfect way to end your day! Relax beneath the stars until September 27, or inside as the weather turns colder beginning September 28, and enjoy a ranger presentation on the canyon's fascinating natural or cultural history. For this evening's topic check the schedules posted around the park. Arrive by walking, driving, or riding the free Village Shuttle bus. Dress warmly and bring a flashlight for the outdoor presentations. Accessibility note: Although the trails to the amphitheater are paved, short sections exceed 5% grade.

Mather Amphitheater,
behind Park Headquarters
until September 27
Shrine of the Ages auditorium
beginning September 28

7:30 p.m.

1 hour

Daily

Additional Programs

Rangers will offer additional programs as staffing is available. Programs may include moon walks, star talks, and walks along the rim covering a variety of subjects. Look for program announcements posted in the visitor centers or along the rim in the Village area to confirm times and availability.

Locations vary

Varies

Varies

Varies

Desert View and Tusayan Museum

Glimpses of the Past

Have you ever wondered how 800 years ago people found food, water, and shelter? Join a ranger to explore the remains of an ancestral Puebloan village and envision a thriving community in this harsh and demanding environment. This walk entails a journey on a 0.1 mile (0.2 km) flat, paved trail.

Tusayan Museum, 3 miles (5
km) west of Desert View

11:00 a.m.
and
1:30 p.m.

30 minutes

Daily

Inside the Canyon You must hike or ride the mules to these locations.

Indian Garden

Rangers present evening programs at the amphitheater just south of the Indian Garden Campground. Check the bulletin board in the campground for times and topics. Rangers also post information on additional programs as scheduling permits.

Indian Garden on the Bright
Angel Trail.

As posted

Varies

Thursday –
Sunday

Phantom Ranch

Talks and evening programs cover a wide range of natural and cultural history topics. Check the Bright Angel Campground bulletin board or the Phantom Ranch Canteen for program locations and subjects. Junior Ranger activity booklet available.


Phantom Ranch

4:00 p.m.
7:30 p.m.

45 minutes
45 minutes

Daily
Daily

Children must be accompanied by an adult on all programs.

 These family-oriented programs are ideal for meeting the ranger program requirement for the Grand Canyon's Junior Ranger award. Any ranger program, however, will meet the requirement on page 2 of the Junior Ranger Activity Booklet.



All outdoor programs may be canceled during rain, snow, or lightning storms.



These programs are wheelchair accessible with assistance. Wheelchairs may be checked out at the Grand Canyon Visitor Center free of charge.

Special Programs

Grand Canyon Celebration of Art September 14–November 1

The Grand Canyon Association is sponsoring the *Grand Canyon Celebration of Art*. The event includes plein air artists at work along the South Rim, a quick draw event and auction, and the *Grand Canyon Modern Masters* juried art competition and show at historic Kolb Studio.

September 14–17

Painters will be at work along the rim. Artists will be available to discuss their projects.

September 16 Plein Air Demonstrations (two demonstrations concurrently)

8:00–10:00 a.m. at El Tovar Hotel and east of Maricopa Point

3:00–5:00 p.m. at El Tovar Hotel

September 17 Plein Air Demonstrations

8:00–10:00 a.m. and 3:00–5:00 p.m. at Mather Point and Yaki Point

September 18 Quick Draw

9:00 a.m. – 11:00 a.m. on the lawn at El Tovar Hotel. The Quick Draw and Auction provides the opportunity to see artists paint en plein air. All Quick Draw paintings will be auctioned immediately following the timed event.



Thomas Moran at Grand Canyon, 1910

September 19 Celebration of Art Show—Modern Masters and Plein Air on the Rim

The show and sale opens to the public with a morning reception at 10:00 a.m. at Kolb Studio. The show continues on display at Kolb Studio through November 1.

Proceeds from the sale of artwork will contribute to the establishment of an art museum on the South Rim to preserve and showcase the spectacular collection of historic and contemporary paintings owned by the National Park Service and the Grand Canyon Association.

For more information about the *Grand Canyon Celebration of Art* artists and events visit: www.grandcanyon.org/celebration.asp.

Grand Canyon Music Festival

The Grand Canyon Music Festival celebrates its 26th season September 11–26 with weekend concerts in the Shrine of the Ages auditorium. The Festival also presents the ninth season of its *Native American Composer Apprentice Project* with music education programs at Navajo and Hopi Reservation schools. Music Festival performers also work with students at the Grand Canyon Unified Schools for the third season of the *School of Rock*.

This year's musicians span the musical world from classical to modern. For programming notes and ticket information, visit the Music Festival's web site at www.grandcanyonmusicfest.org or call (800) 997-8285.

Tickets: \$15.00 adults; \$8.00 children 6–12
All concerts begin at 7:30 p.m.

September 11 and 12: Bluegrass legend Dean Osborne and Navajo artist James Bilagody join the rock-driven post-classical band ETHEL (left) to open the music festival's 26th season.

September 18: Grand Canyon High School students perform a pre-concert recital at 6:00 p.m. The Bonfiglio Group (Robert Bonfiglio, Joe Deninzon, and Chris Milletari) performs jazz and blues.

September 19: Grand Canyon Music Festival founders Clare Hoffman and Robert Bonfiglio and friends perform works by J.C. Bach, Peter Schickele, and Steven Foster.

September 20: ETHEL presents the world preview concert of the compositions from the Navajo and Hopi student participants in the Native American Composer Apprentice Project.

September 25 and 26: The season concludes with the Enso String Quartet performing works by Ravel and Schumann.



Dia de la Familia: A Celebration of Hispanic Heritage Month

Nearly 500 years ago, Spanish explorers made their first contact with indigenous tribes along the canyon rim. These first meetings set the stage for future missionary expeditions by Fathers Garcés and Escalante to the area. Although they initially met with little success, their trips helped spread the word about Grand Canyon. A century later, their fellow countrymen would begin making their way up to the canyon and Tusayan, helping to build the thriving and diverse community that exists here today.

On September 26, join park staff in celebrating the cultural ties between Mexico and the Grand Canyon. Events will include a host of nature walks and talks in Spanish and English, craft demonstrations from Mexican artisans, and the debut of the new Ken Burn's documentary of the

National Park Service. Special guests will be on hand to discuss condor reintroduction in Baja California, recreational opportunities on Arizona public lands, as well as job opportunities with the National Park Service.

Please look for flyers around the park on September 26 which will give a detailed list of events and activities. Events will also be posted at all South Rim visitor centers.

Saturday, September 26 also marks National Public Lands Day with free admission to Grand Canyon National Park, as well as all other national parks. Free shuttle bus service will be offered that day between Tusayan and Grand Canyon Visitor Center from 9:00 a.m. to 9:00 p.m.

Earth Science Week October 11–17

Earth Science Week promotes understanding and appreciation of the value of earth science research and its applications and relevance to our daily lives. The National Park Service celebrates Earth Science Week by offering special presentations throughout the week. Grand Canyon is the world's greatest geologic landscape and serves as an introduction to our planet's stories for people and especially students throughout the world.

The theme for the 2009 Earth Science Week is understanding climate. Grand Canyon National Park is hosting a Climate Friendly Parks workshop October 14–15 to develop



an action plan for reducing greenhouse gas emissions and strategies for adapting to the impacts of climate change.

Interpretive park rangers and scientists from the park's Division of Science and Resource Management will present a variety of special programs on climate change and the earth sciences with a focus on the park's geology.

Check at any visitor center or at Park Headquarters for a complete schedule of events or visit www.nps.gov/grca/planyourvisit/earth-sci-week.htm.

Enjoying Grand Canyon

Information Centers (see pages 2–3 for ranger programs at these locations)



Kolb Studio

Open daily 8:00 a.m.–7:00 p.m. until September 30
8:00 a.m.–6:00 p.m. October 1–31
8:00 a.m.–5:00 p.m. beginning November 1

Located in the Village Historic District at the Bright Angel Trailhead, Kolb Studio is the restored home and business of the Kolb brothers, pioneering photographers at Grand Canyon. Visit the free art exhibits in the auditorium and shop in the bookstore.



Verkamp's Visitor Center

Open daily 8:00 a.m.–7:00 p.m. until September 30
8:00 a.m.–6:00 p.m. October 1–31
8:00 a.m.–5:00 p.m. beginning November 1

The newest visitor center resides in one of the oldest buildings on the South Rim. Operated as a curio shop for more than 100 years by the Verkamp family, the building now features displays telling the history of Grand Canyon Village.



Yavapai Observation Station

Open daily 8:00 a.m.–7:00 p.m. until September 30
8:00 a.m.–6:00 p.m. beginning October 1

How old is the canyon? How did it form? The exhibits at Yavapai Observation Station answer these and other geology questions. The historic building, located one mile (1.6 km) east of Market Plaza, features expansive canyon views. The bookstore offers a variety of materials about the area.



Canyon View Information Plaza

Open daily 8:00 a.m.–7:00 p.m. until September 30
8:00 a.m.–6:00 p.m. October 1–31
8:00 a.m.–5:00 p.m. beginning November 1

The new parking areas allow for easy access to Canyon View Information Plaza. You can also ride the free shuttle buses or walk the short distance from Mather Point. You may view the outdoor exhibits anytime.



Tusayan Museum

Open daily 9:00 a.m.–5:00 p.m.

A visit to Tusayan Ruin and Museum provides a look into the lives of a thriving community as illustrated by its pottery, seashell bracelets, corncocks, and arrowheads. See 2,000–4,000-year-old original split-twist figurines. Art from today's tribes provides a glimpse into their rich cultures. The museum is located three miles (5 km) west of Desert View. Free admission.



Desert View Bookstore & Park Information

Open daily 9:00 a.m.–5:00 p.m.

The Desert View Bookstore and Park Information Center, located at Desert View Point near the park's east entrance, offers an excellent selection of publications and park information.

A passport cancellation stamp is available at all above locations.

Canyon's Best Bargain: The Free Shuttle Bus System

For more than 30 years the National Park Service has provided a free shuttle bus system on the South Rim. The buses use compressed or liquefied natural gas, a clean burning fuel. Buses have provisions for improved accessibility and can accommodate most wheelchairs. All shuttles have racks for bicycles. Riding the shuttles makes your stay more enjoyable, while reducing pollution and decreasing traffic congestion.



How do I use the shuttles?

The map on pages 8–9 is the key. The map shows routes, stops, operating times, and route lengths. Park your vehicle in one of the parking areas, proceed to the nearest bus stop, and board the next bus. The buses come by every 10–20 minutes. You do not need to obtain a ticket, and you are free to get on or off at any stop. You can ride to a stop, enjoy the view, shop at a gift store, or walk along the rim, then hop on a later shuttle.

Where do the shuttles go?

Three shuttle routes operate during the fall. The routes do not overlap, although they interconnect. Buses show the route name on the front and display an appropriately colored square near the door.

Hermits Rest Route (red)

The western-most route winds seven miles along the rim to Hermits Rest, stopping at viewpoints along the way.

Village Route (blue)

This loop connects visitor centers, lodging, restaurants, gift shops, and campgrounds. It provides the best means to get to many of the ranger programs.

Kaibab Trail Route (green)

Leaving from Canyon View Information Plaza, this route goes to the South Kaibab Trailhead and two viewpoints to the east.

Sunrise & Sunset

Date	Sunrise	Sunset
September 8	6:06 a.m.	6:46 p.m.
September 13	6:10 a.m.	6:38 p.m.
September 20	6:15 a.m.	6:28 p.m.
September 27	6:21 a.m.	6:18 p.m.
October 4	6:26 a.m.	6:07 p.m.
October 11	6:32 a.m.	5:58 p.m.
October 18	6:38 a.m.	5:48 p.m.
October 25	6:45 a.m.	5:40 p.m.
November 1	6:51 a.m.	5:32 p.m.
November 8	6:58 a.m.	5:26 p.m.
November 15	7:05 a.m.	5:21 p.m.
November 22	7:12 a.m.	5:17 p.m.
November 29	7:19 a.m.	5:15 p.m.

Moon Phases

New moon	Full moon	Moon rise
	September 4	6:43 p.m.
September 18		
	October 3	5:38 p.m.
October 17		
	November 2	5:15 p.m.
November 16		

All times are Mountain Standard Time.

Enjoying Grand Canyon

Superintendent's Welcome



Fall is a wonderful time to be visiting Grand Canyon. The warm days of September give way to the first snows in October or November. Fewer visitors mean a less hectic pace. Cooler temperatures

make hiking into the canyon more enjoyable.

This year we celebrate the 90th anniversary of the designation of Grand Canyon National Park. Thanks to the foresight of congress and President Wilson we have this awe-inspiring landscape preserved so that we may share it with people from around the world.

The construction in the Canyon View Information Plaza area should be finishing in the early fall. Take advantage of the new parking areas to stop by the Grand Canyon Visitor Center and walk out to Mather Point. Please drive carefully in the construction zone.

The expansive views, colorful buttes, and hidden depths of Grand Canyon stand as an icon of the American West and the national park system. Enjoy this visit to your park.

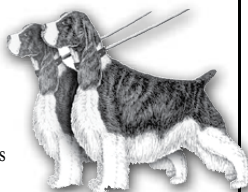
Steve Martin

Steve Martin, Superintendent

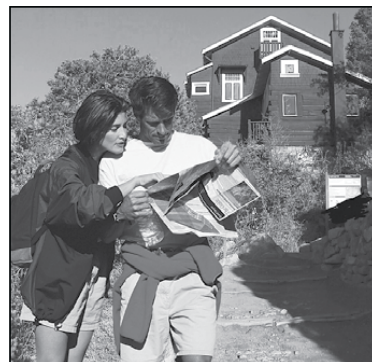
Pets Must Be Leashed at All Times

Leashed pets are allowed on rim trails throughout the developed areas of the South Rim, but not below the rim. The only exception is service animals.

Persons wishing to take a service animal below the rim must check in first at the Backcountry Information Center. Kennels are available. Telephone: (928) 638-0534.



Planning Your Grand Canyon Experience



Individual interests, available time, and the weather can influence your visit. Use the information in this publication and talk with a ranger in one of the visitor centers to help make your Grand Canyon experience memorable. The National Park Service and park concessioners hope you have a rewarding visit.

If you have only an hour or two

Go to one of the viewpoints such as Mather, Yavapai, or Yaki Points and immerse yourself in the view. Walk a short distance along the Rim Trail and watch the changing patterns of light and shadow in the canyon. How many languages can you identify being spoken by other visitors?

If you have half a day

Stop at one of the visitor centers and learn more about the geology or history of the area. Participate in a ranger program. Ride the Hermits Rest Route shuttle to Hermits Rest, getting off at the Monument Creek Vista stop and walking or bicycling the Greenway Trail to Pima Point.

If you have all day

Walk a short distance down the Bright Angel or South Kaibab Trails, keeping in mind that it is much easier walking down than climbing back up. Drive east on Desert View Drive, enjoying the overlooks along the way and stopping at Tusayan Museum and the Desert View Watchtower. Be at one of the viewpoints an hour before sunset to savor the changing colors and shadows. Help your children attain their Junior Ranger badge.

If you have two or more days

The canyon is yours to enjoy and explore. Arise early and take in a sunrise. Hike a trail and notice how much warmer it becomes as you descend into the canyon. Venture away from the popular viewpoints, find a sunny spot to sit, and experience the quiet of the canyon. Attend several ranger-led activities, ending your day with the Evening Program. Step out at night to experience a truly dark sky illuminated by countless stars.

Environmental Education Class Field Trips and Teacher Workshops

The Environmental Education staff invites teachers and students to take advantage of our free educational programs. We offer nine ranger-led field trip programs at the canyon covering geology, ecology, and history topics. The curriculum-based programs are designed for grades K-7 and address Arizona and national academic standards. During January and February, rangers conduct in-class presentations throughout Arizona and neighboring states. Distance learning programs via two-way video-conferencing are also offered. All programs are popular, so advanced reservations are required. Contact the park as soon as possible to schedule your activity.

Free teacher workshops cover suggested pre- and post-visit activities, as well as walk-throughs of the programs at the canyon. Park staff conducts workshops several times each year. For more information or to make reservations for either student activities or teacher workshops call (928) 638-7931 or visit www.nps.gov/grca/forteachers/.



Would you like to be a Junior Ranger?

The National Park Service offers a Junior Ranger program for children ages 4 and older.

Pick up a *Junior Ranger Activity Book* at the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, or Tusayan Museum information desk and complete the activities listed for the appropriate age level. A special Junior Ranger program is available at Phantom Ranch.

Once completed (don't forget attendance at one or more ranger programs) bring the booklet back to the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, or Tusayan Museum to receive an official Junior Ranger certificate and badge.



Cell Phone Tour

Your cell phone provides another way to learn more about Grand Canyon National Park. You can listen to a narration over your cell phone at numerous

points of interest on the South Rim between Maricopa and Yaki Points.

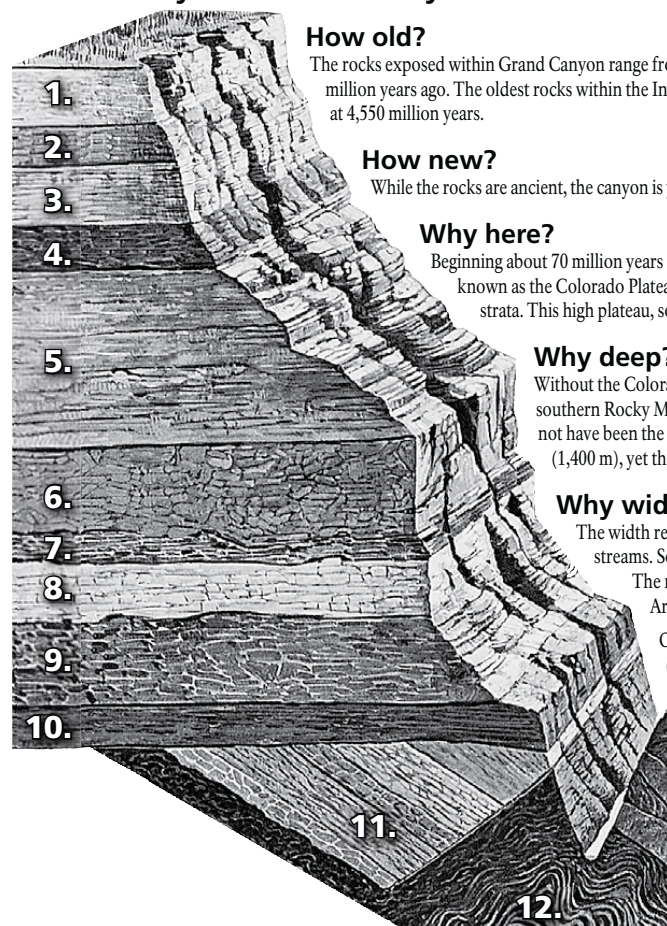
Wherever you see a cell phone tour sign, dial (928) 225-2907 and enter the indicated stop number. You will hear an interpretive ranger give a two-minute synopsis on various aspects of the canyon from geology to Native American history to the night sky.

There is no additional charge to listen to these messages. Please be aware that cell phone coverage can be spotty and not all providers offer service in the park.



Park Science

There's Only One Grand Canyon: Basic Answers to Your Geologic Questions



How old?

The rocks exposed within Grand Canyon range from the fairly young to the fairly old (geologically speaking). Kaibab limestone, the caprock on the rims of the canyon, formed 270 million years ago. The oldest rocks within the Inner Gorge at the bottom of Grand Canyon date to 1,840 million years ago. For comparison geologists currently set the age of Earth at 4,550 million years.

How new?

While the rocks are ancient, the canyon is young. Geologists generally agree that canyon carving occurred over the last 5–6 million years—a geologic blink of the eye.

Why here?

Beginning about 70 million years ago, heat and pressure generated by two colliding tectonic plates induced mountain building in western North America. An area known as the Colorado Plateau was raised more than 10,000 feet (3,000 m), but was spared most of the deformation and alteration associated with the uplifting of strata. This high plateau, so critical to Grand Canyon's story, is a geological puzzle that researchers still seek to understand.

Why deep?

Without the Colorado River, a perennial river in a desert environment, Grand Canyon would not exist. Water draining off the western slopes of the southern Rocky Mountains carried sand and gravel, cutting down through the layers of rock. Without the uplift of the Colorado Plateau, there would not have been the thousands of feet of topography to sculpt. From Yavapai Point on the South Rim to the Colorado River is a change of 4,600 feet (1,400 m), yet the river still flows 2,450 feet (750 m) above sea level.

Why wide?

The width results from the rock layers collapsing around the river and its tributaries combined with the “headward erosion” of these side streams. Softer, weaker layers erode faster, undermining the harder, stronger layers above them. Without adequate support, the cliffs collapse.

The relentless river carries this eroded material to the Gulf of California. Much of what is now southeastern California and southwestern Arizona is covered with material eroded from Grand Canyon.

Over its 277 river miles (446 km), the jagged Grand Canyon varies in width. Along the South Rim, it ranges between 8 and 16 miles (13–26 km) depending upon where you choose to measure.

Why Grand?

Often described as Earth's greatest geological showcase, the ensemble of stunning dimensions—the melding of depth, width, and length—sets Grand Canyon apart. Nowhere else features such a dazzling variety of colorful rock layers, impressive buttes, and shadowed side canyons. Grand Canyon is the canyon against which all other canyons are compared.

The exhibits at Yavapai Observation Station explain the geologic processes that formed the rocks and carved the canyon.

Illustration:

1. Kaibab Formation	270 million years
2. Toroweap Formation	273 million years
3. Coconino Sandstone	275 million years
4. Hermit Formation	280 million years
5. Supai Group	315–285 million years
6. Redwall Limestone	340 million years
7. Temple Butte Formation	385 million years
8. Muav Limestone	505 million years
9. Bright Angel Shale	515 million years
10. Tapeats Sandstone	525 million years
11. Grand Canyon Supergroup	1,200 million–740 million years
12. Vishnu basement rocks	1,840–1,680 million years

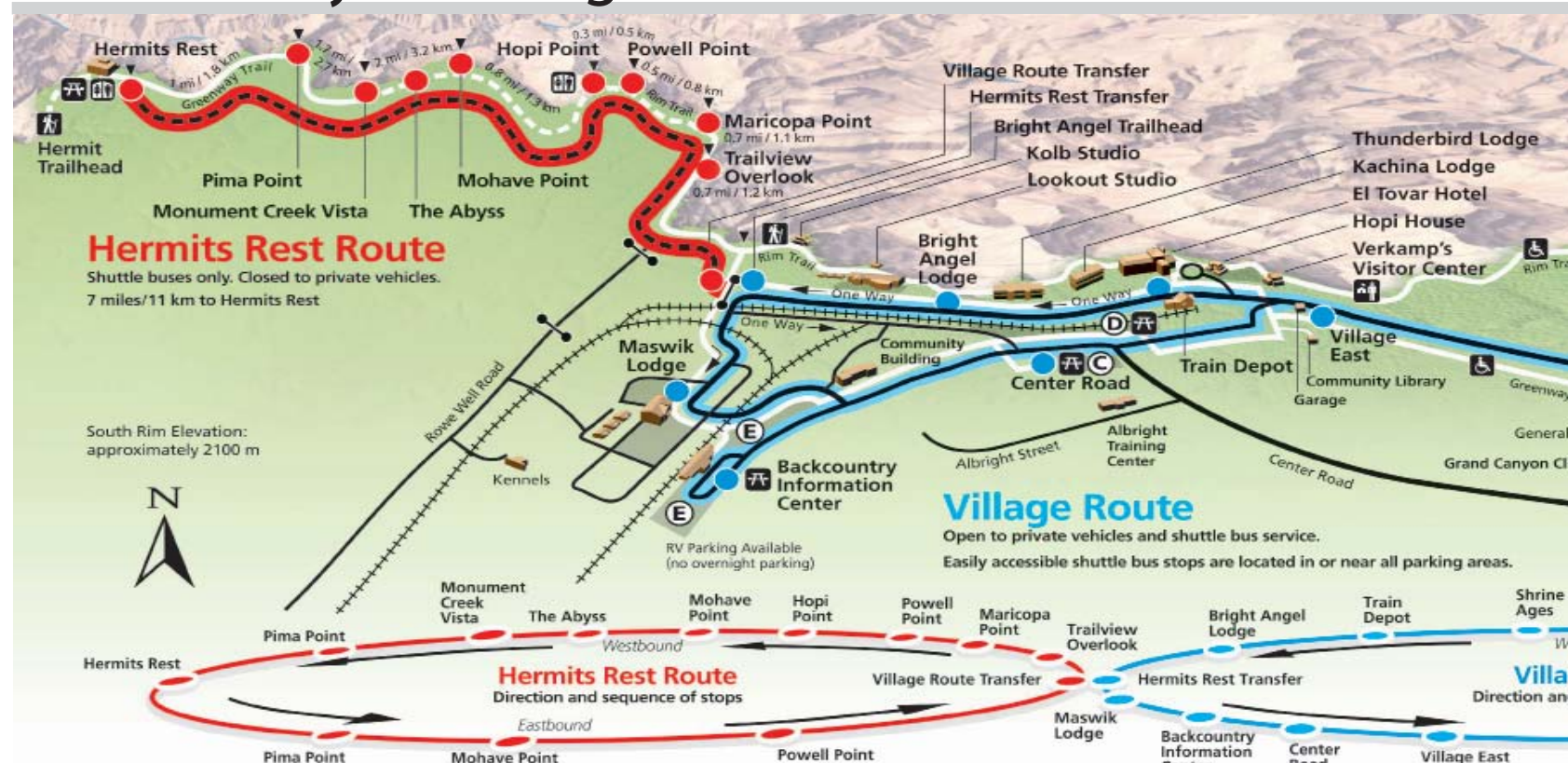
Want to know more?

The geologic story is rich in detail and mystery. Attending a free ranger program may move you from wonder to comprehension. Programs are described on pages 2–3.

Grand Canyon Association bookstores offer many geology related titles. Bookstore hours and locations are listed on page 5. To learn more about geology at Grand Canyon, take a look at:

- *Yardstick of Geologic Time*, Allyson Mathis
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Ranney
- *Ancient Landscapes*, Ron Blakey and Wayne Ranney

Grand Canyon Village Shuttle Bus Routes, Points of Interest



Free Shuttle Buses

Free shuttle buses operate on three routes on the South Rim:

Hermits Rest Route (indicated in red on the map above), Village Route (blue), and Kaibab Trail Route (green). The routes interconnect, but do not overlap. No tickets are required, and bus stops are clearly marked throughout the park by signs with the above symbol.

Buses are white with a green stripe. The buses display the route name on the front and an appropriately colored square near each door.

All buses are equipped with bicycle racks. Bicycle one way and ride the shuttle the other.

Pets are not permitted on buses.

Service may be suspended during inclement weather.



Hermits Rest Route

Buses provide transportation between the Village Route Transfer and

Hermits Rest (seven miles; 11 km) with stops at nine canyon overlooks. Buses stop only at Hermits Rest, Pima, Mohave, and Powell Points on return.

75 minutes round-trip (without getting off bus)

September, October, and November buses run every:

30 minutes 5:15 a.m. to 9:30 a.m.

15 minutes 9:30 a.m. to sunset

30 minutes sunset to one hour after sunset



Village Route

Buses provide transportation between Canyon View Information Plaza,

Yavapai Point, hotels, restaurants, campgrounds, parking lots, and other facilities in the Village area. This is not a scenic route, but rim views are available a short walk from many stops.

60 minutes round-trip (without getting off bus)

September, October, and November buses run every:

30 minutes 5:15 a.m. to 6:30 a.m.

15 minutes 6:30 a.m. to 7:30 p.m.

30 minutes 7:30 p.m. to 10:00 p.m.



Kaibab Trail Route

Buses provide transportation between Canyon View Information Plaza, South

Kaibab Trailhead, Yaki Point, and Pipe Creek Vista. This is the shortest scenic route and the only access to Yaki Point.

30 minutes round-trip (without getting off bus)

September, October, and November buses run every:

30 minutes 5:15 a.m. to 6:30 a.m.

15 minutes 6:30 a.m. to one hour after sunset



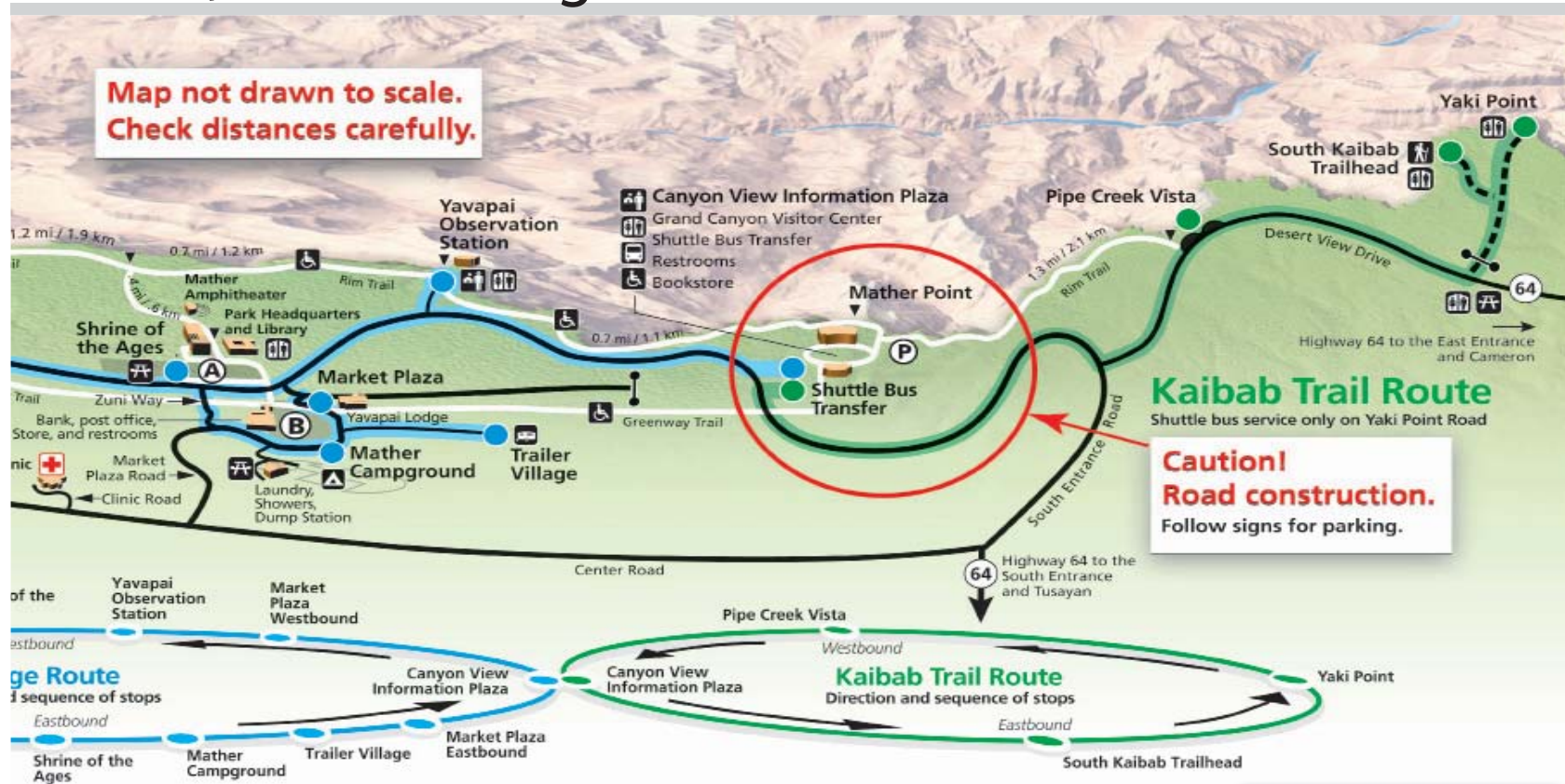
Hikers' Express

An early morning bus leaves daily from the Bright Angel Lodge shuttle bus stop and the Backcountry Information Center and goes directly to the South Kaibab Trailhead at:

September: 5:00, 6:00, and 7:00 a.m.
October: 6:00, 7:00, and 8:00 a.m.
November: 7:00, 8:00, and 9:00 a.m.

Sunrise and sunset times are on page 7.

Interest, and Parking



Rules of the Road



Motorist Warning: Pedestrians have the right of way. Vehicles must stop for pedestrians in crosswalks.



Pedestrian Warning: Avoid walking on narrow park roads. Use trails that parallel most park roads. Always face traffic.



Bicyclist Warning: Bicycles are permitted on all paved and unpaved park roads and the Greenway Trails. They are prohibited on all other trails, including the Rim Trail. Bicyclists must obey all traffic regulations. Always ride single file with the flow of the traffic. Wear bright colors and a helmet.

On the narrow Hermit Road bicyclists should pull to the right shoulder of the road and dismount when large vehicles are attempting to pass. Never hang onto a shuttle bus while riding.



Parking

Parking is available at the Grand Canyon Visitor Center and in lots throughout Grand Canyon Village. Please avoid parking along the roadside except where signs or lines on the road indicate that it is permissible. Location of the lots is indicated on the map above.

- (A) Near Park Headquarters. Large lot that frequently has available spots.
- (B) Near the businesses in Market Plaza. This is the largest lot, but tends to fill early.
- (C) This small lot may have sites when others do not.
- (D) Unpaved lot along the railroad tracks in the Grand Canyon Village Historic District.
- (E) Near the Backcountry Information Center. The southern portion of this lot has large, pull-through spaces for RVs and vehicles with trailers.



Accessibility

An accessibility permit, allowing access to some areas closed to public traffic, is available at entrance gates, the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, Park Headquarters, Kolb Studio, El Tovar Concierge Desk, and the Bright Angel Lodge, Yavapai Lodge, and Maswik Lodge Transportation Desks.

Day-Use Wheelchairs

The National Park Service provides wheelchairs at no charge at the Grand Canyon Visitor Center at Canyon View Information Plaza.

Legend

- Shuttle Bus Routes (Indicated in red, blue, or green)
- Shuttle Bus Stops (Indicated in red, blue, or green)
- Major Park Roads (All vehicles)
- Secondary Roads (All vehicles)
- Shuttle Buses Only
- Parking
- Picnic Tables
- Paved Trails
- Unpaved Trails
- Distance between points on trails

Not to scale. Check distances carefully.

Park News

Inspired by the Canyon? Here is How You Can Help



Grand Canyon National Park is often referred to as a "spectator park" by virtue of the scenic splendor that draws millions of visitors each year. Such a narrow description of the inherent value of the park betrays the intricate ecosystem and complicated cultural history that define this iconic landscape.

While absorbing the majesty of the canyon, it is sometimes easy to overlook the unending efforts by the National Park Service to preserve, protect, and make available for the enjoyment of visitors this grandest of chasms. In a "crown jewel" national park where needs continue to outreach funding, the National Park Service has turned to partners such as the Grand Canyon Association (GCA), the park's official fund-raising organization.

While operating bookstores and the Grand Canyon Field Institute, the Grand Canyon Association also supports the park's Environmental Education program, which awards travel grants to bring schoolchildren to the park, sends rangers to schools throughout Arizona, and conducts teacher-training workshops at Grand Canyon. GCA also distributes *Travelin' Trunks* (right), providing teachers across the nation with fun, educational park information for use in the classroom.



**GRAND
CANYON
ASSOCIATION**

INSPIRE. EDUCATE. PROTECT.

The park is home to hundreds of animal species and thousands of plant species. Funding from *Adopt-a-Lion* (left) and other Grand Canyon Association programs helps the park's wildlife biologists and independent researchers to monitor and study the local flora and fauna. Such research aids park managers in making science-based decisions.

In addition, the Grand Canyon Association supports the National Park Service's trail work—rehabilitating backcountry trails, providing trailside amenities including benches and signage, and building 73 miles of multi-use trails on the North and South Rims. Support from the association also helps fund the *Hike Smart* campaign, promoting visitor safety in the park.

The Grand Canyon Association also underwrites some of the park's art programs, including this fall's *Grand Canyon Celebration of Art* (see page 4) and exhibits at historic Kolb Studio.

This is where you can help. The Grand Canyon Association needs the financial support of Grand Canyon enthusiasts like you to maintain and expand these worthy projects. Together, we can help further the understanding and protection of this irreplaceable resource for generations to come.

For more information about the association and its donation program visit the association web site or contact:

Bonnie O'Donnell
Director of Development
bodonnell@grandcanyon.org
(928) 638-7036
www.grandcanyon.org

Pardon Our Construction: New Projects Along the Rim



While the canyon may have taken millions of years to carve, construction projects along the South Rim proceed at a much faster pace.

Your Entrance Fees at Work

Most of the entrance fees collected here fund projects to improve your visit, although twenty percent of the fees are distributed to national park areas that do not collect entrance fees. The most visible project this year is the improvements in the Mather Point/Canyon View Information Plaza area. The park entrance road now circles the south side of Canyon View Information Plaza, relieving congestion in the Mather Point area. New parking areas make it much easier to visit Grand Canyon Visitor Center and Mather Point. In coming months additional trails to the rim, picnic areas, and a rimside amphitheater will be completed. Please drive slowly in the construction area and observe all signs.

Recently completed projects include the rehabilitation of Hermit Road including improvements to the Rim Trail. Ride the free shuttle bus to the Monument Creek Vista or Hermits Rest stops and enjoy walking, bicycling, or using a wheelchair on the new 1.5 mile (2.4 km) section of the Greenway that offers views of the canyon usually seen by only a few visitors. Work continues on installing improved

toilets at a number of trailheads, picnic areas, and attraction points away from the main developed area.

National Park Service trail crews have started a multiyear project to improve the South Kaibab Trail into the canyon. During this project, more mules may use the Bright Angel Trail.

American Recovery and Reinvestment Act Projects

The park received funds from the federal government's economic stimulus package. Most of these projects will not be as visible, but include upgraded heating and cooling systems in park buildings, repairs to roofs, and rehabilitation of historic structures. You may also encounter some roadwork projects as part of this package. Trails will benefit from work funded by arra.

Special Donations

From time to time, the park benefits from special donations. This spring Arizona Public Service (APS) installed photovoltaic panels at Canyon View Information Plaza (above) that provide some of the electricity needed at the Grand Canyon Visitor Center.

Artist in Residence Program

Few places have provoked as much wonder and creativity as Grand Canyon. The Artist-in-Residence program offers professional artists (writers, composers, visual and performing artists) the opportunity to spend time at Grand Canyon. The National Park Service supplies a residence within the park for a three week period. The South Rim program runs year around, while the North Rim program is offered May through October.

In exchange for the adventure of living and working in a national park, the resident artist has the opportunity to create works that generate

understanding and dialogue about the need to preserve this national treasure. While here, the selected artist shares his or her inspiration, motivation, and techniques in programs with park visitors. Check at any visitor center for current programs, demonstrations, or workshops. Upon completion of the residency, the artist donates a work representative of the park. If you are interested in the Artist in Residence program, stop by any NPS visitor center and ask for a brochure with application or visit our web site www.nps.gov/grca/supportyourpark/air.htm.

Park News



Interagency Annual Pass

If you are a frequent visitor to National Park Service or other federal agency sites that charge entrance fees, you may be interested in the *America the Beautiful - National Parks and Federal Recreation Lands Pass*. Five agencies—National Park Service, Bureau of Land Management, Bureau of Reclamation, U.S. Fish and Wildlife Service, and U.S. Forest Service—participate in the program. The \$80.00 pass is valid for one year from the time of first use. The program also offers a lifetime senior pass (\$10.00) for U.S. citizens 62 or over and a free access pass for citizens with permanent disabilities. The *America the Beautiful* pass may be purchased at entrance stations, Grand Canyon Association bookstores or online at www.recreation.gov. The senior and access passes are available only at entrance stations.

Wildlife Alert

Deer and elk can be especially aggressive in the fall!



Fall is the rutting period for deer and elk. During this time animals may become aggressive with any intrusion into their territory. Never approach wildlife. Photograph all animals from the safety of your vehicle. Use telephoto lenses and observe quietly.

It is dangerous and illegal to feed wild animals in a national park. Wildlife can become dependent on handouts and lose their ability to hunt and forage naturally. Such animals may lose their fear of humans and bite, kick, or gore. Help us keep wildlife wild.



Xanterra's Environmental Commitment

Xanterra South Rim's Environmental Commitment

Xanterra South Rim has raised the bar of environmental performance for ourselves and the tourism industry, by setting standards to improve our environmental performance. Our activities include:

1. Xanterra is one of the few U.S. hospitality companies to achieve ISO 14001 certification of its environmental management system (EMS). We call our EMS "ecologix – the logical integration of business and ecology."
2. In a move that decreases visible emissions from our tour buses by 66 percent and improves fuel economy by close to 20 percent, Xanterra maintains hydrous alcohol injectors (Hydrofire) and throttle controls (DriverMax) on our bus fleet. This is a practical way to reduce pollution in the park from our fleet of motor coaches powered by naturally-aspirated diesel engines. Each motor coach travels an average of 20,000 miles per year.
 - The Hydrofire hydrous alcohol injectors works with the fuel injection system to reduce nitrous oxide (NO_x) emissions (a contributor to acid rain and smog) and increase the efficiency of the bus
 - The DriverMax throttle controls the acceleration cycle by optimizing fuel flow and operating between the driver's foot throttle and the engine.
3. The recycling program in the park – which accepts a wide range of items commingled in the same bins – has helped increase the amount of trash we keep out of the landfill, raising the percentage from 10 percent to 40 percent. In the brown bins around the park (and the blue ones in our guest rooms), you can recycle paper (including newspaper), plastic bottles (#1 and #2), aluminum cans, glass, metal, and cardboard. We also recycle household batteries (ask at our Retail stores where to leave them).
4. Xanterra is one of only a few companies in the entire tourism industry to produce an environmental sustainability report, publicly disclosing the company's environmental performance. If you stay overnight in our facility, there will be a copy of this report in your room.
5. Xanterra is the first U.S. hospitality company to be granted "Chain of Custody" certification from the Marine Stewardship Council to serve only Alaskan wild salmon and to ban certain types of fish species deemed harmful to the environment.
6. Xanterra South Rim purchases renewable wind power equal to 5% of our total electricity usage. This purchase of almost 670,000 kWh is the equivalent of taking 81 cars off the road or planting 127 acres of trees.
7. If you're staying with us more than one night, please help conserve water by participating in our towel and linen reuse program. Just by rehangng your towel on the rack, our staff will know not to unnecessarily change towels or linens.

The National Park Service thanks these concessioners for support with this and other publications.

Xanterra South Rim

Xanterra South Rim, L.L.C. is the primary concessioner and the sole provider of in-park lodging at the South Rim. Owned and operated by Xanterra Parks & Resorts, we have been providing quality guest service since the El Tovar Hotel was opened in 1905 by the Fred Harvey Company. Today park visitors have a choice of accommodations in seven distinctly different Grand Canyon lodging properties. Additional services include gift stores, restaurants and in-park tours.

As the nation's largest national and state park management company, we know that we play an integral part in the tourism industry and how it impacts the natural environment. This is why we are a company based upon values that reflect an environmental ethic and social conscience for the long term. We have taken the lead in this calling and have implemented comprehensive and broad-based environmental initiatives throughout all of our operations. Please join us in these efforts to reduce, reuse and recycle during your visit to this special place. For more information call (928) 638-2631 or visit www.grandcanyonlodges.com.



Xanterra South Rim, LLC.—We're not just close, we're there!

DNC Parks & Resorts

DNC Parks & Resorts at Grand Canyon (DNC) operates the General Stores in the park at Desert View and Grand Canyon Village under contract with the U.S. Department of the Interior. DNC encourages its associates to develop a strong relationship with the park during their tenure and to be good stewards of its special places in which we operate. For more information please contact us at (928) 638-2262.



Forever Resorts

Forever Resorts operates the Grand Canyon Lodge, restaurants, retail, gift and convenience stores, service station, and Grand Canyon Cookout Experience on the North Rim under contract with the U.S. Department of the Interior. Forever Resorts trains and encourages employees to foster a sense of awareness and stewardship in park visitors through an appreciation of park resources. For information on Grand Canyon North Rim Lodge, visit online at www.GrandCanyonForever.com.



Day Hiking



Before You Go . . .

Plan Ahead

As a day hiker no permits are required. You are entirely on your own. Your descent into the canyon, however brief, marks your entry into a world in which preparation, self-reliance, and common sense are crucial.

Fall Weather Varies

Inner canyon temperatures in September can soar past 100° F (38° C). The first snowstorms may come to the South Rim as early as mid-October. Know the weather forecast and dress appropriately.

Double Your Calories, Double Your Fun

Salty snacks and water or sports drinks should be consumed on any hike lasting longer than 30 minutes. Food is your body's primary source of fuel and salts (electrolytes) while hiking in the canyon.

If you do not balance your food intake with your fluid consumption, you run the risk of becoming dangerously debilitated and severely ill. For every hour hiking in the canyon, you should drink $\frac{1}{2}$ to 1 quart (liter) of water or sports drinks.

Your best defense against illness and exhaustion is to eat a large breakfast, a full lunch, a snack every time you take a drink, and a rewarding full dinner at the end of the day. This is not a time to diet.

Watch Your Time

Plan on taking twice as long to hike up as it took to hike down. Allow $\frac{1}{3}$ of your time to descend and $\frac{2}{3}$ of your time to ascend.

Mules and Hikers

Encounters between hikers and mules have resulted in injuries to packers and the death of some mules. To ensure safety for yourself, other trail users, and mule riders, when encountering mules on the trails:

- Step off the trail on the uphill side away from the edge.
- Follow the directions of the wrangler. Remain quiet and stand perfectly still.
- Do not return to the trail until the last mule is 50 feet (15 m) past your position.

Hiking Tips

- 1 Be Prepared:** Know your route. Autumn days are growing shorter. The weather may change dramatically. Carry a map, flashlight, and extra clothing including wind and rain protection.
- 2 Stay Comfortable:** If it is hot, reduce your pace and hike during the cooler hours of the day. Wet your shirt and hat to stay cooler. If it is cool, add layers and do not forget your hat. It is important to stay dry and out of the wind.
- 3 Go Slowly:** If you can carry on a conversation, you are hiking at the right pace. If you find yourself out of breath, your legs and digestive system are not getting enough oxygen. Lack of oxygen can cause fatigue, heavy legs, and exhaustion.
- 4 Rest Often:** Sit down, prop your legs up, and take a 10-minute break at least once every hour.
- 5 Eat and Drink Frequently:** Balance your food and water intake. Salty snacks help replace electrolytes lost through perspiration. Eat a salty snack every time you drink.

Hiking Chart for some popular day hike destinations

Warning! National Park Service rangers recommend that you do not attempt to hike from the rim to the river and back in one day, because of the distance, high canyon temperatures, low humidity, and the steepness of the trails. Few trails form loops; you will be hiking on the same trail in both directions. You are responsible for the safety of yourself and those in your party!

Trails

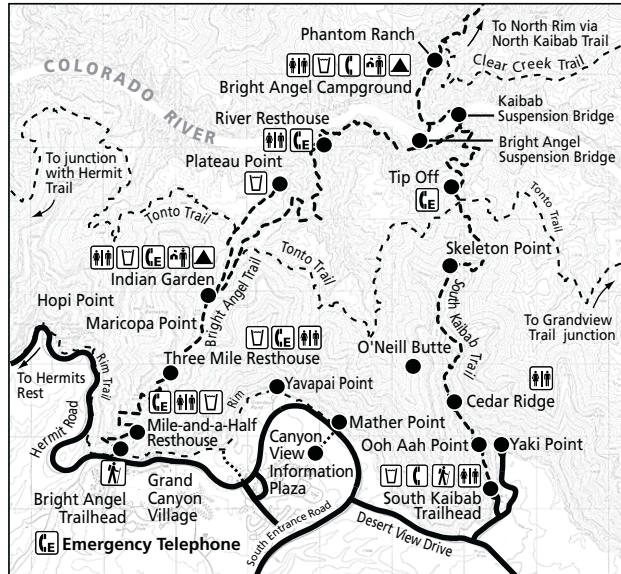
	Destination	Round trip distance	Approximate time round trip	Elevation change	Notes
Rim Trail (mostly flat, many sections suitable for wheelchairs)					
The Rim Trail offers easy walking and quiet views as it winds along the rim from Hermits Rest west to Pipe Creek Vista. Begin from any viewpoint and use the free shuttle buses to return.	Follows the rim for 12 miles	Your choice	15 minutes to half-a-day	200 feet 60 m	Mostly paved, except dirt from Monument Creek Vista west to Maricopa Point
Bright Angel Trail (steep, but popular)					
The most popular trail into the canyon begins west of Bright Angel Lodge. Some shade and seasonal water (subject to line breaks). Check at visitor centers or the Backcountry Information Center for trail condition.	1 $\frac{1}{2}$ -Mile Resthouse	3 miles 4.8 km	2–4 hours	1,131 feet 345 m	Rest rooms Water May–Sept.
Hiking to the river and back in one day is not recommended.	3-Mile Resthouse	6 miles 9.6 km	4–6 hours	2,112 feet 644 m	Rest rooms Water May–Sept.
	Indian Garden	9.2 miles 14.8 km	6–9 hours	3,060 feet 933 m	Rest rooms Water year-round
Plateau Point is extremely strenuous.					
	Plateau Point	12.2 miles 19.6 km	8–12 hours	3,195 feet 974 m	Water year-round View of river
South Kaibab Trail (steep with expansive views)					
Trail begins south of Yaki Point; you must ride the free shuttle bus to the trailhead. Best views for a relatively short hike, but no afternoon shade. Hiking to the river and back in one day is not recommended	Ooh Aah Point	1.8 miles 2.9 km	1–2 hours	600 feet 180 m	No water First view east
	Cedar Ridge	3 miles 4.8 km	2–4 hours	1,140 feet 347 m	Rest rooms No water
	Skeleton Point	6 miles 9.7 km	4–6 hours	2,040 feet 622 m	No water; second hitching rail
Hermit Trail (steep and rocky)					
This rough, unmaintained trail starts 500 feet (150 m) west of Hermits Rest. Recommended for experienced desert hikers, this trail has little afternoon shade. Hiking boots recommended. Water from springs must be treated.	Waldron Basin	3 miles 4.8 km	2–4 hours	1,240 feet 380 m	No water, little shade
	Santa Maria Spring	5 miles 8 km	4–6 hours	1,760 feet 540 m	Treat water
	Dripping Springs	7 miles 11 km	5–7 hours	1,400 feet 430 m	Treat water Narrow trail



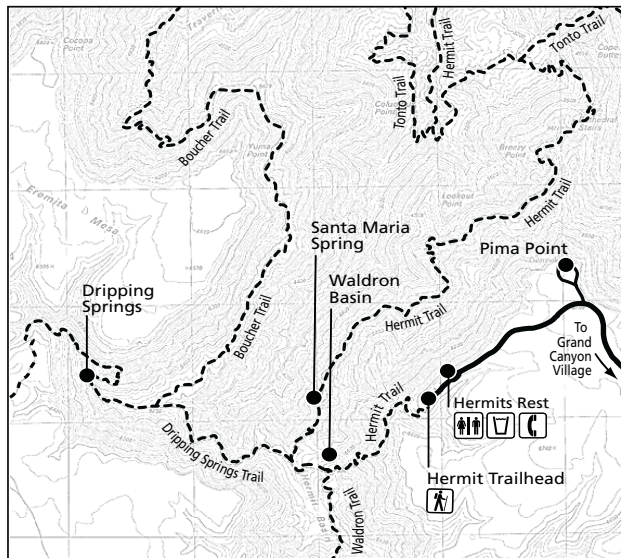
The **Hikers' Express** runs directly from the Bright Angel Lodge shuttle bus stop and the Backcountry Information Center to the South Kaibab Trailhead daily at:
September: 5:00 a.m., 6:00 a.m., and 7:00 a.m. **October:** 6:00 a.m., 7:00 a.m., 8:00 a.m.
November: 7:00 a.m., 8:00 a.m., and 9:00 a.m.

Hiking and Camping Below the Rim

Corridor Trails: Bright Angel and South Kaibab



Hermit Trail



Backpacking Permits

Backcountry Information Center

P.O. Box 129
Grand Canyon, AZ 86023
(928) 638-7875 Phones answered only
1:00 p.m. - 5:00 p.m. Monday - Friday
www.nps.gov/grca/

Overnight backpacking in Grand Canyon provides a degree of solitude, wildness, and silence that is increasingly difficult to find. A backcountry permit is required for all overnight backpacking, except for guests of Phantom Ranch. Permits can be reserved up to four months in advance. A fee of \$10.00 per permit plus \$5.00 per person per night is collected. The permit program helps to limit impacts to the natural resource while providing a greater degree of solitude for hikers.

Individuals arriving without a permit may be able to obtain one through a daily waiting list. Inquire early in the morning at the Backcountry Information Center, open daily 8:00 a.m. to noon and 1:00 p.m. to 5:00 p.m. For more information, pick up a Backcountry Trip Planner at the Backcountry Information Office or any NPS visitor center.

Leave No Trace

Leave No Trace is a nonprofit organization dedicated to promoting responsible outdoor recreation through education, research and partnerships. While enjoying your visit, please consider the following principles to minimize your impact and help protect Grand Canyon for future generations.

1. Plan ahead and prepare
2. Travel and camp on durable surfaces
3. Dispose of waste properly
4. Leave what you find
5. Minimize campfire impacts
No campfires in Grand Canyon National Park backcountry.
6. Respect wildlife
7. Be considerate of other visitors

For more information: www.LNT.org



Health Hazards

Moderation is the key to having an enjoyable hike. Hike within your ability, maintain proper body temperature, balance your food and water intake, and rest often. Emergency situations include:

Heat exhaustion

Heat exhaustion is the result of dehydration due to intense sweating. Hikers can lose one to two quarts (liters) of water per hour. Rangers at both Phantom Ranch and Indian Garden treat as many as twenty cases of heat exhaustion a day in summer.

Symptoms: pale face, nausea, cool and moist skin, headache, and cramps

Treatment: drink water, eat high-energy foods, rest in the shade, cool the body

Heat stroke

Heat stroke is a life-threatening emergency where the body's heat-regulating mechanisms become overwhelmed by a combination of internal heat production and environmental demands. Every year two to three Grand Canyon hikers experience heat stroke.

Symptoms: flushed face, dry skin, weak and rapid pulse, high body temperature, poor judgment or inability to cope, unconsciousness. Victim is in danger!

Treatment: find shade, cool victim with water, send for help!

Hyponatremia

Hyponatremia is an illness that mimics the early symptoms of heat exhaustion. It is the result of low sodium in the blood caused by drinking too much water, not eating enough salty foods, and losing salt through sweating.

Symptoms: nausea, vomiting, altered mental states, and frequent urination

Treatment: have the victim rest and eat salty foods. If mental alertness decreases, seek immediate help!

Hypothermia

Hypothermia is a life-threatening emergency where the body cannot keep itself warm due to exhaustion and exposure to cold, wet, windy weather.

Symptoms: uncontrolled shivering, poor muscle control, and a careless attitude

Treatment: put on dry clothing, drink warm liquids, and protect from wind, rain, and cold.

Want to know more?

Grand Canyon Association bookstores offer many books and maps on hiking. Bookstore hours and locations are listed on page 5. A few items to consider include:

- *Official Guide to Hiking Grand Canyon*, Scott Thybony
- The Grand Canyon Trail Guides series: Bright Angel, Grandview, Havasu, Hermit, North Kaibab, South Kaibab, South and North Bass
- Grand Canyon National Park Trails topographic map

Lodging and Services

Lodging

In the Park–South Rim

For same-day reservations, call (928) 638-2631. For advance reservations, call (888) 297-2757 or write:

Xanterra Parks & Resorts
6312 South Fiddlers Green Circle, Suite 600N
Greenwood Village, CO 80111

www.grandcanyonlodges.com

All prices are subject to change.

Bright Angel Lodge

On the rim. \$69–174

El Tovar Hotel

On the rim. \$174–426

Kachina Lodge

On the rim. \$170–180

Thunderbird Lodge

On the rim. \$170–180

Maswik Lodge

West end of village. \$90–170

Yavapai Lodge

Market Plaza. \$107–153

Phantom Ranch

Located at the bottom of the canyon. Overnight dormitory and cabin space. Advance reservations are required. Call for prices (see above) or inquire at the Transportation Desks in Bright Angel, Maswik, or Yavapai Lodges.

North Rim

Grand Canyon Lodge

Make reservations by calling (877) 386-4383 or www.foreverresorts.com

Outside the Park–Tusayan, AZ

Best Western Grand Canyon Squire Inn

(800) 937-8376 or (928) 638-2681

Canyon Plaza Resort

(800) 995-2521 or (928) 638-2673

Grand Hotel

(888) 634-7263 or (928) 638-3333

Holiday Inn Express

(888) 473-2269 or (928) 638-3000

Red Feather Lodge

(866) 561-2425 or (928) 638-2414

Camping

In the Park–South Rim

Camping is permitted only in designated campsites in Grand Canyon National Park.

Mather Campground

Operated by the National Park Service. No hookups are available, but there is a dump station. Maximum vehicle length: 30 feet. Campsites are \$18.00 per night through November 21; \$15.00 beginning November 22. Some sites may be available on a first-come, first-served basis. Check at the campground entrance. Reservations available until November 21. For advance reservations contact (877) 444-6777 or visit www.recreation.gov.

Trailer Village

Pull-through sites with hookups are located next to Mather Campground. \$32.00 per site per night for two people; \$2.00 for each additional person over age 16. Campers may register at the entrance to Trailer Village. Reservations through Xanterra Parks & Resorts. For same-day reservations, call (928) 638-2631. See advance reservation contact information in adjacent column.

Desert View Campground

Located near the East Entrance, 25 miles (40 km) east of Grand Canyon Village. Self-registration is on a first-come, first-served basis. \$12.00 per site per night. Campground closes in mid-October depending on the weather.

Outside the Park

Camper Village

Commercial campground located one mile (1.6 m) south of park entrance in the town of Tusayan. Hookups, coin-operated showers, laundry, propane, dump station, and store are available year round. Call (928) 638-2887 or (800) 638-2887. www.grandcanyoncampervillage.com

Ten-X Campground

Operated by Kaibab National Forest. Located two miles south of Tusayan. \$10.00 per site per night. No hookups or showers. Group sites available by reservation. Information: (928) 638-2443. Campground closes September 30.

Dining

Listed west to east along the rim.

Hermits Rest Snack Bar

Open daily 9:00 a.m. – 5:00 p.m.

Maswik Cafeteria

In Maswik Lodge at the west end of the village.

Open daily 6:00 a.m. – 10:00 p.m.

Sports Lounge 5:00 p.m. – 11:00 p.m.

Bright Angel Restaurant

In Bright Angel Lodge. Open daily.

Breakfast: 6:30 a.m. – 10:45 a.m.

Lunch: 11:15 a.m. – 4:00 p.m.

Dinner: 4:30 – 10:00 p.m.

Lounge: 11:00 a.m. – 11:00 p.m.

Bright Angel Coffee House

Located in the Bright Angel Lodge.

Open daily 5:30 a.m. – 10:00 a.m.

Bright Angel Fountain

Hours vary seasonally.

The Arizona Room

On the rim in Bright Angel Lodge. Open daily.

Reservations are not accepted.

Lunch: 11:30 a.m. – 3:00 p.m.

No lunch after November 2

Dinner: 4:30 p.m. – 10:00 p.m.

Closed for season November 3

El Tovar Dining Room

Located on the rim. Open daily.

Breakfast: 6:30 a.m. – 11:00 a.m.

Lunch: 11:30 a.m. – 2:00 p.m.

Dinner: 5:00 p.m. – 10:00 p.m.

Dinner reservations are required:

(928) 638-2631 ext. 6432.

Lounge: 11:00 a.m. – 11:00 p.m.

Delicatessen at Marketplace

Located in the General Store. Open daily.

8:00 a.m. – 6:00 p.m.

Yavapai Cafeteria

Located at Market Plaza.

Open daily: 7:00 a.m. – 8:00 p.m.

Closed November 1–25

Desert View Trading Post Snackbar

Open daily: 9:00 a.m. – 5:00 p.m.

Groceries

Canyon Village Marketplace

The General Store is located in Market Plaza.

September 7 – October 11 8:00 a.m. – 9:00 p.m.

Beginning October 12 8:00 a.m. – 7:00 p.m.

Desert View Marketplace

9:00 a.m. – 5:00 p.m.

Closed Thanksgiving Day

Books and Gifts

Listed west to east along the rim.

Hermits Rest 9:00 a.m. – 5:00 p.m.

Maswik Gift Shop 7:00 a.m. – 10:00 p.m.

Kolb Studio

Through September 30 8:00 a.m. – 7:00 p.m.

October 1–31 8:00 a.m. – 6:00 p.m.

Beginning November 1 8:00 a.m. – 5:00 p.m.

Lookout Studio 9:00 a.m. – 5:00 p.m.

Bright Angel 7:00 a.m. – 10:00 p.m.

El Tovar 7:00 a.m. – 10:00 p.m.

Hopi House

Through October 21 9:00 a.m. – 6:00 p.m.

Beginning October 22 9:00 a.m. – 5:00 p.m.

Verkamp's Visitor Center

Through September 30 8:00 a.m. – 7:00 p.m.

October 1–31 8:00 a.m. – 6:00 p.m.

Beginning November 1 8:00 a.m. – 5:00 p.m.

Yavapai Curio

Through October 21 8:00 a.m. – 8:00 p.m.

Beginning October 22 9:00 a.m. – 5:00 p.m.

Books & More at Canyon View Information Plaza

Through September 30 8:00 a.m. – 7:00 p.m.

October 1–31 8:00 a.m. – 6:00 p.m.

Beginning November 1 8:00 a.m. – 5:00 p.m.

Yavapai Observation Station

Through September 30 8:00 a.m. – 7:00 p.m.

Beginning October 1 8:00 a.m. – 6:00 p.m.

Desert View Bookstore/Park Information

. 9:00 a.m. – 5:00 p.m.

Desert View Trading Post

Through October 21 9:00 a.m. – 6:00 p.m.

Beginning October 22 9:00 a.m. – 5:00 p.m.

Desert View Watchtower

Through October 21 9:00 a.m. – 6:00 p.m.

Beginning October 22 9:00 a.m. – 5:00 p.m.

Watchtower stairs close 30 minutes before store closing.

Services

Medical

24-Hour emergency care dial 911
From hotel rooms dial **9-911**

North Country Grand Canyon Clinic

Through September 30
Daily: 8:00 a.m. – 6:00 p.m.
October 1–31
Monday–Saturday: 8:00 a.m. – 6:00 p.m.
Beginning November 1
Monday–Friday: 8:00 a.m. – 5:00 p.m.
(928) 638-2551

Services

In the Park

Laundry and Showers

Located near Mather Campground.
Through September 17: 6:00 a.m. – 11:00 p.m.
Last laundry load: 9:45 p.m.
September 18–October 29: 7:00 a.m. – 9:00 p.m.
Last laundry load: 7:45 p.m.
Beginning October 30: 8:00 a.m. – 6:00 p.m.
Last laundry load: 4:45 p.m.

Chase Bank and ATM

At Market Plaza. 24-hour ATM.
Monday–Thursday: 9:00 a.m. – 5:00 p.m.
Friday: 9:00 a.m. – 6:00 p.m.
Accepts travelers checks and major credit cards.
(928) 638-2437.
ATM also available in Maswik Lodge lobby.

Post Office

At Market Plaza. (928) 638-2512
Monday–Friday: 9:00 a.m. – 4:30 p.m.
Saturday: 11:00 a.m. – 1:00 p.m.

Kennels

Open daily: 7:30 a.m. – 5:00 p.m. (928) 638-0534
For retrieval after 5:00 p.m., contact Fire and Safety: (928) 638-2631.

Lost and Found

For items lost or found in hotels or restaurants, call: (928) 638-2631. For all other lost items call: (928) 638-7798. Take found items to the Grand Canyon Visitor Center at Canyon View Information Plaza or Verkamp's Visitor Center.

Garage Services

Located east of the train depot. Open daily 8:00 a.m. – noon and 1:00 p.m. – 5:00 p.m. Provides basic emergency repairs; tow service to Williams or Flagstaff. After hours emergency service available. (928) 638-2631

Tours & River Trips

Air Tours

Fixed-wing and helicopter tours originate daily from Grand Canyon Airport. A list of air tour operators is available upon request at NPS visitor centers or consult the local telephone directory.

Bus Tours

Tours within the park to Desert View and Hermits Rest, as well as sunrise and sunset tours, are available daily. Contact any transportation desk or call (928) 638-2631.

Mule Trips

One- and two-day trips into the canyon depart each morning. Call (928) 638-2631 or contact the Bright Angel Lodge Transportation Desk for information. www.grandcanyonlodges.com

Horse Rides

Trail rides and twilight wagon rides are available from Apache Stables at the north end of Tusayan. Rides are offered as weather permits. For information and reservations call (928) 638-2891.

Smooth-Water Raft Trips

Half-day trips on the Colorado River from Glen Canyon Dam to Lees Ferry are provided by Colorado River Discovery. (888) 522-6644 or www.raftthecanyon.com.

Hiking and Backpacking **Grand Canyon Field Institute (GCFI)**

offers a wide variety of educational programs throughout the park. Expert instructors who share the wonder of Grand Canyon with participants of all ages and backgrounds lead these single- and multi-day classes. For more information call (866) 471-4435 or visit www.grandcanyon.org/fieldinstitute. GCFI is a program of the nonprofit Grand Canyon Association.

Transportation

Transportation Desks

Information about Phantom Ranch facilities, mule trips, horseback riding, air tours, one-day float trips, and motorcoach tours (including wheelchair-accessible tours) is available in the following lodge lobbies. Call (928) 638-2631, ext. 6015.

Maswik Lodge

6:00 a.m. – 6:30 p.m. until October 31

Bright Angel

6:00 a.m. – 8:00 p.m. until October 31
6:00 a.m. – 6:30 p.m. beginning November 1

Yavapai Lodge

8:00 a.m. – 1:00 p.m. and 2:00 p.m. – 6:30 p.m. until October 31

Railroad

Grand Canyon Railway offers service between Williams, Arizona, and Grand Canyon. Call (800) THE-TRAIN for information and reservations. www.thetrain.com

Taxi Service

Service is available to the Grand Canyon Airport, trailheads, and other destinations. Daily 24-hour service. (928) 638-2631, ext. 6563.

Rim to Rim Shuttle

Daily round-trip transportation between the North Rim and South Rim is provided by **Transcanyon Shuttle**. One trip each way daily. Reservations required: (928) 638-2820. Scheduled service stops October 15; charter service available until November 15.

Shuttle Service

Two companies provide shuttle service between Flagstaff and Grand Canyon twice daily, also serving Phoenix as well as other locations in northern Arizona.

Flagstaff Express

(800) 563-1980 or (928) 225-2290
www.flagstaffexpress.com

Open Road Tours

(877) 226-8060 or (928) 226-8060
www.openroadtours.com

Arizona Highway Information

511 or (888) 411-ROAD
www.az511.gov



Religious Services

Religious services are offered in the park and the nearby community. Current schedules are posted at Mather Campground (near the check-in station), Shrine of the Ages, the information kiosk near the post office, the Grand Canyon Visitor Center at Canyon View Information Plaza, and Verkamp's Visitor Center.

Church of Jesus Christ of Latter-Day Saints

Don Kiel, Branch President. (928) 638-9426

El Cristo Rey Roman Catholic

Father Eugene Cagoco, D.S., (928) 638-2390

Grand Canyon Assembly of God

Brian and Debbie Fulthorpe, Co-pastors,

Grand Canyon Baptist Church

Rick Wiles, Pastor. (928) 638-0757

Grand Canyon Community Church

(Christian Ministry in the National Parks - multi-denominational)
Jared Long, Pastor. (928) 638-2340

Jehovah's Witnesses (Tusayan)

Borden Miller, (928) 635-4166

Jewish Services and Programs

Rabbi Nina Perlmutter, (928) 777-8172

Available in Tusayan

IMAX Theater (928) 638-4629

Movie shown every hour on the half hour
Through October 31 8:30 a.m. – 8:30 p.m.
Beginning November 1 10:30 a.m. – 6:30 p.m.

Kaibab National Forest

Tusayan Ranger District (928) 638-2443

News and Weather

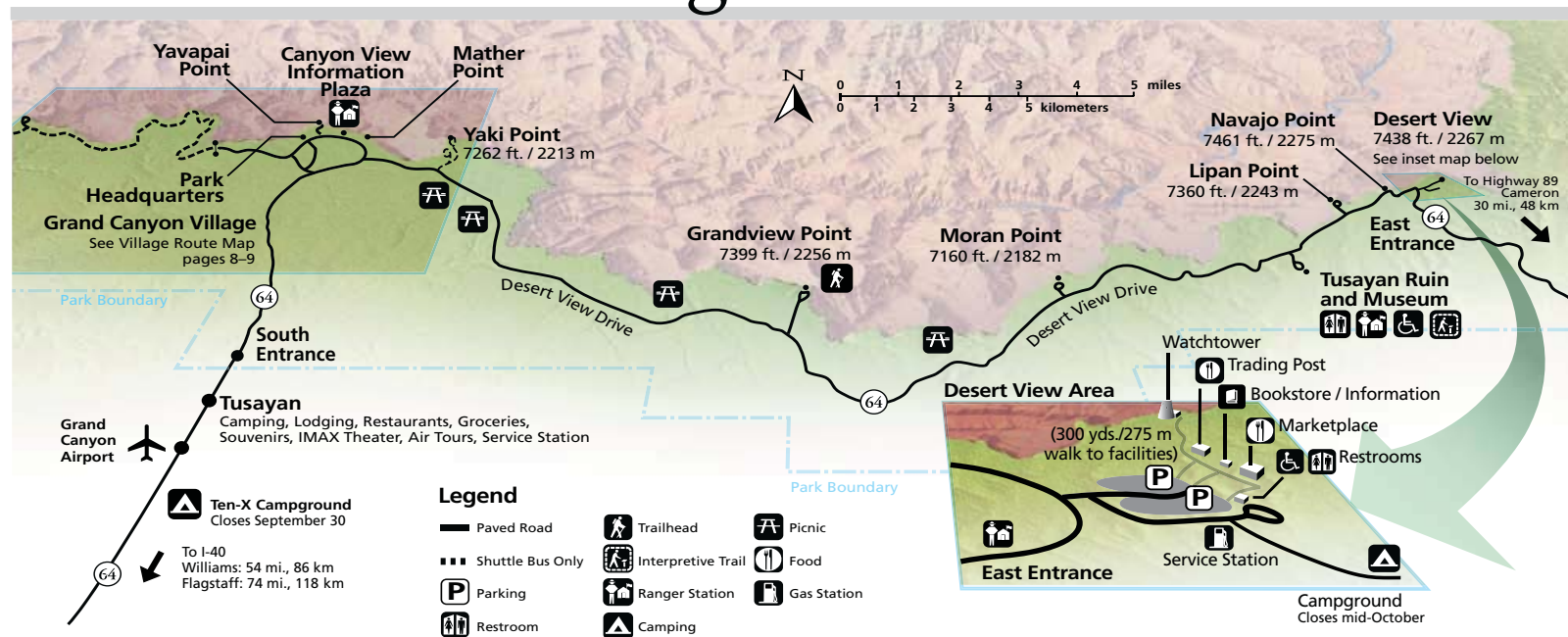
KNAU Radio FM 90.3

Hualapai Skywalk

The Hualapai Skywalk is on the Hualapai Indian Reservation, not in Grand Canyon National Park. The Skywalk is at the west end of Grand Canyon approximately 250 miles from the South Rim. Stop by any NPS visitor center for a brochure with a map.

The Skywalk is a Hualapai Tribal business. For information or to make reservations:
(877) 716-9378 or (702) 878-9378 or
www.destinationgrandcanyon.com.

South Rim including Desert View



Bookstores



GRAND CANYON ASSOCIATION

INSPIRE. EDUCATE. PROTECT.

The Grand Canyon Association (GCA) is a nonprofit organization created in 1932 to inspire and educate people to protect Grand Canyon National Park for the enjoyment of present and future generations. GCA has provided the park more than \$31 million in financial support. For GCA bookstore locations, see page 5.

When you shop at GCA bookstores, your purchase supports Grand Canyon National Park. When you visit, ask how you can support Grand Canyon National Park's educational programs and scientific research by becoming a member of the Grand Canyon Association. In addition to supporting the park, you will receive a 15 percent discount at all GCA bookstores, including our online bookstore. For more information visit www.grandcanyon.org, or call toll free (800) 858-2808, ext. 7030.

Member discounts are also available for most classes offered by the Grand Canyon Field Institute, GCA's outdoor education program. For more information about GCFI, visit www.grandcanyon.org/fieldinstitute.

Teachers can take advantage of GCA's *Travelin' Trunk* program, which brings the Grand Canyon to your classroom. For more information call (800) 858-2808, ext. 7142, or visit www.grandcanyon.org/fieldinstitute/educators_trunk.asp.

North Rim



The average distance across Grand Canyon "as the raven flies" is ten miles (16 km). Traveling from the South Rim to the North Rim by automobile, however, requires a five-hour drive of 215 miles (346 km).

Lodging and camping at the North Rim are available from mid-May to mid-October. Reservations are strongly recommended. Additional facilities are available in the surrounding Kaibab National Forest, the Kaibab Lodge area, and Jacob Lake. The road to the North Rim closes with the first heavy snowfall in November or early December.

A separate edition of *The Guide* is published for the North Rim. Ask at any NPS visitor center for a copy.

Desert View Services

Chevron Service Station		9:00 a.m. – 5:00 p.m.
Closes October 28	Fuel available 24 hours with credit card all year	
Desert View Marketplace		9:00 a.m. – 5:00 p.m.
Bookstore/Park Information		9:00 a.m. – 5:00 p.m.
Trading Post Gift Shop	Until October 21	9:00 a.m. – 6:00 p.m.
	Beginning October 22	9:00 a.m. – 5:00 p.m.
Watchtower Gift Shop	Until October 21	9:00 a.m. – 6:00 p.m.
	Beginning October 22	9:00 a.m. – 5:00 p.m.
Watchtower stairs	Close 30 minutes before gift shop	
Desert View Campground	First-come, first-served; closes mid-October	

National Park Service
U.S. Department of the Interior

Grand Canyon National Park

Post Office Box 129
Grand Canyon, AZ 86023

For the latest information updates, visit the Grand Canyon National Park web site at: www.nps.gov/grca/

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